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AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A porous insulating film consisting essentially of a highly heat resistant polyimide resin film having a fine porous structure wherein:
- a) fine continuous channels reaching to both surfaces of the film in a nonlinear fashion have a mean pore size of $0.01-5~\mu m$ in at least one surface the center and both surfaces of the film and a porosity of 15-80%; and
- b) the polyimide resin film consists essentially of a polyimide obtained from the combination of at least one tetracarboxylic acid component and a diamine component.
- 2. (Original) A porous insulating film according to claim 1, wherein the mean pore size is $0.05-1~\mu m$.
- 3. (Original) A porous insulating film according to claim 1, wherein the porosity is 30-80%.
- 4. (Original) A porous insulating film according to claim 1, which has a thickness of 5-150 μm.
 - 5. (Canceled)
 - 6. (Original) A porous insulating film according to claim 1, which is fabricated by a film casting method.
 - 7. (Original) A porous insulating film according to claim 1, wherein the dielectric constant is no greater than 2.5.
 - 8.-9. (Canceled)
 - 10. (Currently amended) A porous insulating film consisting essentially of a highly heat resistant polyimide resin film having a fine porous structure wherein:

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- a) fine continuous channels reaching to both surfaces of the film in a nonlinear fashion have a mean pore size of 0.01 5 μm in at least one surface the center and both surfaces of the film; and
- b) the polyimide resin film consists essentially of a polyimide obtained from the combination of at least one tetracarboxylic acid component and a diamine component and has
 - (i) a thickness of 5 $100 \mu m$,
 - (ii) a resistance to passage of air of from 30 sec/100 cc to 2000 sec/100 cc,
 - (iii) a heat resistance temperature of at least 200°C and
 - (iv) a heat shrinkage of greater than $\pm 1\%$ at 105°C.

11. (Canceled)

12. – 14 (Withdrawn)

15. (Previously added) A battery separator comprising a porous insulating film according to claim 10.

16. (Previously added) A porous insulating film according to claim 1 or 10, wherein the tetracarboxylic acid component is selected from a biphenyltetracarboxylic dianhydride, pyromellitic dianhydride and a benzophenonetetracarboxylic dianhydride.

- 17. (Previously added) A porous insulating film according to claim 1 or 10, wherein the diamine component is selected from a phenylenediamine or a diaminodiphenylether.
- 18. (Previously added) A porous insulating film according to claim 1, wherein the pores in the porous structure are arranged in the film substantially parallel to the film surfaces.
- 19. (Previously added) A porous insulating film according to claim 16, wherein the biphenyltetracarboxylic dianhydride is 3,3',4,4'-biphenyltetracarboxylic dianhydride.

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A porous insulating film according to claim 10, wherein the pores 20. (Previously added) in the porous structure are arranged in the film substantially parallel to the film surfaces.